Tracking: Winter Conference Development

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Tracking Meeting

Aug 20, 2003

Tracking Development: Progress

Projects in for 5.1.0

5.1.0pre5 built - Just fixed problems with silicon data reading and COT MC silicon efficiency good

- New COT alignment: done
- Corresponding silicon alignment: final version ready
- Improved COT drift model: code in place: need to determine constants/run calibration job
- t0 used in COT tracking: t0 in Z vertex collection and code exists for fitting
- IO tracking: inside-out: working version ready: Clean up of COT/IO-Standalone duplicates done
- Standalone tracking improvements wafer level corrections: done
- Standalone tracking expected ladder information: First version in: needs calibration table and accessors
- Beamline code run in or before production: working version ready: needs farms testing
- Beamline pointing for HL code: done
- Improvements to dE/dx code: done
- Phoenix tracking: complete version ready: need to combine with IO tracking probably not for 5.1.0
- L3 Silicon Standalone Tracking: ready: need to quantify performance

Tracking Development: Progress

In progress

- COT HL/SL track merge: needs study and new code
- Improvements to pull distributions of track parameters:
 Theory proposed by Andy Foland probably caused by hits in tails of the resolution distribution needs more manpower
- Use of L00: Need to write refit that uses L00